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## No work was done in 4985

MR Form 3 (Revised 1984)

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#### ANNUAL OPERATIONS AND PROGRESS REPORT

GAS & MINING

From Month/Year /-/- 85 to Month/Year /2-3/-85

(To be submitted for  $\underline{\text{each}}$  mining operation at the end of  $\underline{\text{each}}$  calendar year to the Division at this  $\underline{\text{address:}}$ )

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR:	Crater Exploration, Ix	MINE NAME: <u>Cato</u>
ADDRESS:	495 E. 4500 S., Suite 10 Salt Lake City, UT 84	/ F /07
PERMIT NUM	MBER AND DATE OF PERMIT: ACT	1019/017
REPRESENTA	ATIVE:	
SECTION(S)	:TOWNSHIP(S):	RANGE(S):
MINERAL(S)	MINED:	
STATE AND/	OR FEDERAL MINERAL LEASE NUMBER:	S:
SPECIAL US	SE PERMITS AND/OR RIGHTS-OF-WAY:	

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

#### MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance	Acreage
Pit	4
Roads	
Facilities	
Waste Dumps	
Other	

(b) Tabulation of acreage affected to date (by years).

Date by Year	Acreage (Total
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	
1983	

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

### SOIL TABULATION CHART

		,	Area	
Area Affected (in mining sequence) (If more space is needed, please attach.)	ī	2	3	etc.
Acreage of Area				
Depth of Topsoil Removal (inches)				
Depth of Topsoil Replacement (inches)*				
Estimate of Topsoil Volume Salvaged (yd <sup>3</sup> or ac ft)				
Volume Actually Salvaged (yd <sup>3</sup> or ac ft)				
Volume Required for Reclamation $(yd^3 \text{ or ac ft})$				
Surplus or Deficit Volume (yd <sup>3</sup> or ac ft)				
Storage Status (short- or long-term)				
	-			

Cail	Tak 1		Chank	(+:)
2011	Iabut	ation	Chart	(continued)

		Area
Area Affected (in mini	ng sequence)	1 2 3 etc.
Storage Location		
Area Where Soil Has Be	en Used (if not stored)	
Running Total (all sto	ckpiles) (yd <sup>3</sup> or ac ft)	
Short-term		
Long-term		
*Of previously strippe	d area recently reclaimed.	
(a) Tabulation of placement and illustra	all (newly removed) out-of- tion on a map.	-pit spoil volumes, date of
Area	Date	Acreage
	quantity of commodity mined	
	quantity of commodity mined	1.
(e) Tabulation of  (Mined) (Milled)  (f) Description of	quantity of commodity mined	Tonnage  ng the report period with
(e) Tabulation of  (Mined)  (Milled)  (f) Description of illustration on a map,	quantity of commodity mined  Commodity  any new construction during	Tonnage  ng the report period with
(e) Tabulation of  (Mined)  (Milled)  (f) Description of illustration on a map,	quantity of commodity mined  Commodity  any new construction during including, but not limited	Tonnage  ng the report period with
(e) Tabulation of  (Mined)  (Milled)  (f) Description of illustration on a map,	quantity of commodity mined  Commodity  any new construction during including, but not limited	Tonnage  ng the report period with
(e) Tabulation of  (Mined) (Milled)  (f) Description of illustration on a map,  1. Building	quantity of commodity mined  Commodity  any new construction during including, but not limited	Tonnage  ng the report period with

	3.	Diversion ditches, collector ditches, interceptor ditches, etc.
	4.	Culverts.
	5.	Sediment ponds, containment ponds.
	6.	Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).
	7.	Topsoil stockpiles.
for mitig	gatio	iption of any environmental problem areas with a proposed plan n and illustration on a map, including, but not limited to:  Pit stability problems.
	2.	Subsidence.

	Acci	delitar water dracharg	ge, dam failure, etc.
4.	Slum	ping, sliaing or eros	sion.
5.	Reve	egetation problem area	as.
6.	. Exis	stence and location of	f unsuitable (toxic) overburden.
ECLAMATION	۷:		
(a) Tab	— oulation	n of the acreage recla map, distinguishing t	eimed during the report perioa with petween:
(a) Tab	oulation on on a		petween:
(a) Tab llustratio	oulation on on a	map, distinguishing t	petween:
(a) Tab llustratio	oulation on on a	map, distinguishing b	ontoured areas.
(a) Tab llustratio	oulation on on a . Back	map, distinguishing b	ontoured areas.
(a) Tab	oulation on on a . Back	map, distinguishing to filled, graded and co	ontoured areas.
llustratio	oulation on on a . Back	map, distinguishing to filled, graded and confilled Area  Area  soiled areas.	ontoured areas.  Acreage

	3.	Seeded areas.	
		. <u>Area</u>	<u>Acreage</u>
	4.	Reseeded areas (are	eas previously seeded, then seeded again).
		<u>Area</u>	Acreage
(b) to date	Tabul by ye	ars with illustration	age reclaimed (seeded with permanent seed mix) on on an updated map:
		<u>Year</u>	Acreage
		1975	
		1976	
		1977 1978	
		1979	
		1980	
		1981	
		1982	
		1983	
		1984	
(c) period,	Descr	ription of the reclam ding:	mation procedures used during the report
	1.	Average depth of to	opsoil applied.
	2.	Type of seed (speci	ies) used for seeding during the report period.

<ol><li>Date of seeding during the report period.</li></ol>
Spring
Fall
4. Seeding procedures used.  (Hand broadcast or drilled or any other).
5. Rate of seed application.
Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)
6. Type and rate of fertilizer applied.
7. Type and rate of mulch applied.
8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).
<ol> <li>Revegetation test plot information.</li> <li>(Cover, density, productivity, etc.)</li> </ol>

	10.	Soil analysis results.
(d) (This st	Descr	ription of results of previous revegetation efforts, including: be done as applicable.)
	1.	Types (species) of seed that have germinated and are growing.
	2.	Types (species) of seed that are not growing successfully.
	3.	Areas experiencing problems with weeds and weed types.
	4.	Significant erosional problems.
	5.	Areas of unsuitable overburden on the surface as related to revegetation failure.
	6.	Procedures used or proposed to correct these problems.
	100000000000000000000000000000000000000	

7. Acreage and dat revegetated are	es of release (upon in as.	nspection by the State) of
Area	<u>Date</u>	Acreage
8. Results of soil	analysis.	
(e) Summarization of the period, including itemized correplacement, seeding, etc.) and haul roads, facilities removal	sts for each operation nd for each type of di	n (i.e., grading, topsoil
	Acres	Cost/Acre
<ol> <li>Grading</li> <li>Backfilling</li> <li>Contouring</li> <li>Topsoil Replacement</li> <li>Seeding         <ul> <li>A. Seedbed Preparation</li> <li>B. Mulch</li> <li>C. Fertilizer</li> <li>D. Seed</li> </ul> </li> <li>Other</li> </ol>		
BOND INFORMATION:		
Division's approval of changes to the MRP has actual/estimated recisection above. The o	of the Mining and Reclave occurred, includin lamation costs as outluste of the release of the for a partial bond	ed, if required in the Lamation Plan (MRP) or if and a detailed itemization of lined in the RECLAMATION revegetated areas from release, if applicable,
<u>Ar</u>	mount Type	Date Posted
Present Bond		

Increased	aisturbance,	if	any:	

Increased Bond Amount (attached reclamation estimate).

B. Bond release.

Acres	Bond Amount Released	Date
		<u> </u>

## ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

#### APPENDIX I

#### ANNUAL REPORT MAPS

- 1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
- Map sheets should be of a reasonable size, not to exceed 48 inches on a sige.
- 3. Maps must have a title block with:
  - A. Map title.
  - B. Name and address of permittee.
  - C. Permit and amendment numbers.
  - D. Annual report period.
  - E. Scale, north arrow, contour interval, date of photography, etc.
- 4. All maps must show:
  - A. Legal subdivisions.
  - B. Permit area boundary clearly shown and labelled.
  - C. Amendment areas clearly shown and labelled.
  - D. Contour features.
- 5. The following features should all be clearly identified:
  - A. Topsoil stockpiles (numbered and with volumes).
  - B. Settling ponds and sediment control structures.
  - C. Haul roads.
  - D. Pits identified by location, name, number, etc.
  - E. Ramps (numbered).
  - F. Out-of-pit spoil dumps.
  - G. All waste disposal sites including, but not limited to:
    - l. Landfill sites.
    - 2. Carbonaceous waste dumps.
  - H. Diversion ditches.
  - Monitoring sites.
- 6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.